

WHAT IS CLAIMED IS:

1. A fabric enhancement composition comprising:
- 5 A) from about 0.1% to about 30% by weight, of a polymeric material selected from the group consisting of:
- 10 a) homo-condensates;
- b) co-condensates;
- c) co-polymers produced from the reaction of one or more basic amino acids with one or more co-condensable compounds;
- 15 d) co-polymers produced from the reaction of one or more homo-condensates from (a) or co-condensates from (b) with one or more co-condensable compounds;
- e) crosslinked basic amino acid-containing polymers, said crosslinked polymers comprising the reaction product of:
- 20 i) one or more basic amino acids;
- ii) co-polymers of (i) and one or more co-condensable compounds;
- iii) optionally co-polymers produced from the reaction of one or more homo-condensates from (a) or co-condensates from (b) with one or more co-condensable compounds; and
- iv) one or more crosslinking unit;
- wherein at least one crosslinking unit is derived from a crosslinker which comprises at least two functional groups;
- 25 f) co-condensates formed from the reaction of one or more compounds selected from the group consisting of:
- i) basic amino acids;
- ii) co-condensable compounds;
- iii) crosslinking agents; and
- g) mixtures thereof;
- 30 B) from about 1% to about 80% by weight, of a fabric softening active; and
- C) the balance carriers and adjunct ingredients.
2. A composition according to Claim 1 wherein said homo-condensate, co-condensate, co-polymer, or crosslinked polymer further comprises alkyleneoxy units wherein the
- 35 average number of alkyleneoxy units per backbone nitrogen is from 0.1 to about 30.

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3. A composition according to Claim 1 wherein said homo-condensate comprises lysine.
4. A composition according to Claim 1 wherein said polymeric material is a co-polymer comprising a homo-condensate of lysine and one or more co-condensable compounds selected from the group consisting of:
- i) compounds having at least one carboxyl group;
 - ii) carboxylic acid anhydrides;
 - iii) diketenes;
 - iv) amines;
 - v) lactams;
 - vi) alcohols;
 - vii) alkoxyated alcohols;
 - viii) alkoxyated amines; and
 - xi) mixtures thereof.
5. A composition according to Claim 4 wherein said co-polymer comprises lysine and aminocaproic acid.
6. A composition according to Claim 4 wherein said co-polymer is further alkoxyated with an average of from about 0.1 to about 30 alkyleneoxy units per backbone nitrogen.
7. A composition according to Claim 1 wherein said polymeric material comprises a crosslinking unit selected from the group consisting of:
- i) ethylene carbonate, propylene carbonate, urea, or mixtures thereof;
 - ii) monoethylenically unsaturated carboxylic acids and their esters, amides, and anhydrides; dibasic saturated carboxylic acids, polycarboxylic acids and the esters, amides, and anhydrides derived therefrom;
 - iii) reaction products of:
 - a) polyether diamines, alkylene diamines, polyalkylene polyamines, alkylene glycols or polyalkylene glycols, and mixtures thereof; and
 - b) monoethylenically unsaturated carboxylic acids, esters, amides, or anhydrides wherein the reaction products comprise at least two units selected from the group consisting of ethylenically unsaturated double bonds, carboxamide, carboxyl, ester groups, and mixtures thereof;

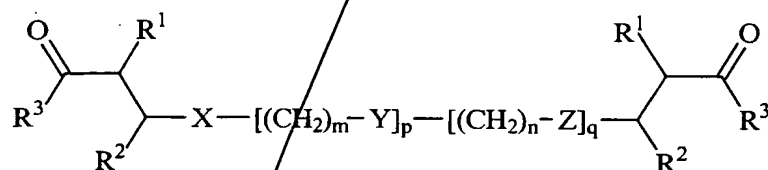
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- iv) reaction products of dicarboxylic acid esters with ethyleneimine, wherein said products comprise at least two aziridino units;
- v) di-epoxides, polyepoxides, α,ω -diisocyanates hexamethylene diisocyanate, *inter alia*, and polyisocyanates;
- vi) and mixtures thereof

8. A composition according to Claim 7 wherein said co-polymer is further alkoxyated with an average of from about 0.1 to about 30 alkyleneoxy units per backbone nitrogen.

9. A composition according to Claim 6 wherein said crosslinking unit has the formula:

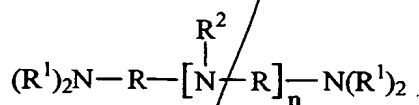


wherein X, and Z are each independently oxygen, -NH-, and mixtures thereof; Y is oxygen, -NH-, -CH₂-, and mixtures thereof; R¹ is hydrogen, methyl, and mixtures thereof; R² is hydrogen, -CO₂R⁴, -CO₂M, -CONH₂, and mixtures thereof; R³ is -OR⁴, -NH₂, -OH, -OM, and mixtures thereof; R⁴ is C₁-C₂₂ alkyl, M is hydrogen or a salt forming cation, and mixtures thereof; m and n are each independently from 0 to 4, and p and q are each independently from 0 to 45,000.

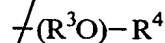
10. A composition according to Claim 1 wherein said polymeric material is the co-polymer formed from the reaction of a C₁-C₂₂ mono-carboxylic acid and an amino acid selected from the group consisting of ornithine, lysine and mixtures thereof.

11. A composition according to Claim 1 further comprising adjunct ingredients selected from the group consisting of electrolytes, stabilizers, low molecular weight water soluble solvents, chelating agents, cationic charge boosters, dispersibility aids, soil release agents, nonionic fabric softening agents, concentration aid, perfume, preservatives, colorants, optical brighteners, opacifiers, fabric care agents, anti-shrinkage agents, anti-wrinkle agents, fabric crisping agents, spotting agents, germicides, fungicides, anti-corrosion agents, antifoam agents, and mixtures thereof.

12. A composition according to Claim 1 further comprising a chelant having the formula:

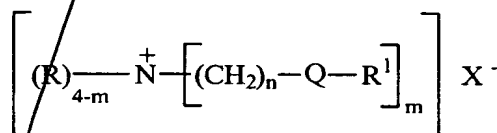


wherein R is ethylene, 1,2-propylene, 1,3-propylene, and mixtures thereof; R¹ is hydrogen, C₁-C₄ alkyl, 2-hydroxypropyl, alkyleneoxy having the formula:

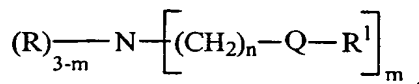


wherein each R³ is independently ethylene, 1,2-propylene, 1,2-butylene, or mixtures thereof, R⁴ is hydrogen, C₁-C₄ alkyl, or mixtures thereof, and mixtures thereof; R² is R¹, -RN(R¹)₂, and mixtures thereof; n is from 0 to 3.

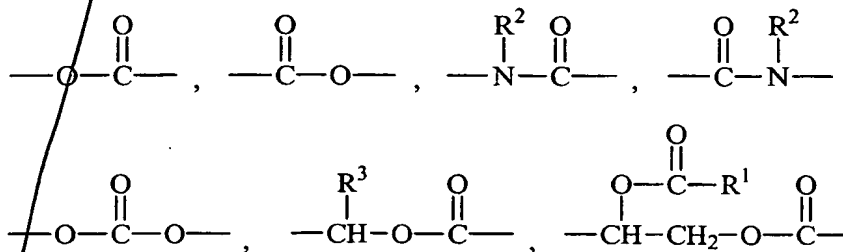
13. A composition according to Claim 1 wherein said fabric softener active comprises a quaternary ammonium compound having the formula:



an amine having the formula:



and mixtures thereof; wherein each R is independently C₁-C₆ alkyl, C₁-C₆ hydroxyalkyl, benzyl, and mixtures thereof; R¹ is C₁-C₂₂ alkyl, C₃-C₂₂ alkenyl, and mixtures thereof; Q is a carbonyl moiety having the formula:



wherein R² is hydrogen, C₁-C₄ alkyl, C₁-C₄ hydroxyalkyl, and mixtures thereof; R³ is hydrogen, C₁-C₄ alkyl, and mixtures thereof; X is a softener compatible anion; m is from 1 to 3; n is from 1 to 4.

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14. A composition according to Claim 13 wherein said fabric softening active comprises an acyl moiety which is derived from a source of triglyceride selected from the group consisting of tallow, hard tallow, lard, canola oil, partially hydrogenated canola oil, safflower oil, partially hydrogenated safflower oil, peanut oil, partially hydrogenated peanut oil, sunflower oil, partially hydrogenated sunflower oil, corn oil, partially hydrogenated corn oil, soybean oil, partially hydrogenated soybean oil, tall oil, partially hydrogenated tall oil, rice bran oil, partially hydrogenated rice bran oil, synthetic triglyceride feedstocks, and mixtures thereof.
15. A composition according to Claim 1 further comprising a principal solvent wherein said principal solvent has a ClogP of from about 0.15 to about 1.
16. A composition according to Claim 15 wherein said principal solvent is selected from the group consisting of mono- alcohols, C₆ diols, C₇ diols, the isomers of octanediol, derivatives of butanediol, the isomers of trimethylpentanediol, the isomers of ethylmethylpentanediol, the isomers of propylpentanediol, the isomers of dimethylhexanediol, the isomers of ethylhexanediol, the isomers of methylheptanediol, the isomers of octanediol, the isomers of nonanediol, alkyl glyceryl ethers, di(hydroxy alkyl) ethers, aryl glyceryl ethers, the derivatives of alicyclic diols, derivatives of alkoxyated C₃-C₇ diols, aryl diols, and mixtures thereof.
17. A composition according to Claim 16 comprising 2,2,4-trimethyl-1,3-pentandiol, 1,2-hexandiol, 2-ethyl-1,3-hexanediol, phenoxyethanol, butyl carbitol, and mixtures thereof.
18. A fabric enhancement composition comprising:
- A) from about 0.1% to about 30% by weight, of a polymeric material selected from the group consisting of:
- a) homo-condensates;
 - b) co-condensates;
 - c) co-polymers produced from the reaction of one or more basic amino acids with one or more co-condensable compounds;
 - d) co-polymers produced from the reaction of one or more homo-condensates from (a) or co-condensates from (b) with one or more co-condensable compounds;

- 5 e) crosslinked basic amino acid-containing polymers, said crosslinked polymers comprising:
- i) one or more basic amino acids;
 - ii) co-polymers of (i) and one or more co-condensable compounds;
 - iii) optionally co-polymers produced from the reaction of one or more homo-condensates from (a) or co-condensates from (b) with one or more co-condensable compounds; and
 - iv) one or more crosslinking unit;
- 10 wherein at least one crosslinking unit is derived from a crosslinker which comprises at least two functional groups;
- f) co-condensates formed from the reaction of one or more compounds selected from the group consisting of:
- i) basic amino acids;
 - ii) co-condensable compounds;
 - iii) crosslinking agents; and
- 15 g) mixtures thereof;
- wherein said homo-condensates from (a), co-condensates from (b), co-polymers from (c) and (d), crosslinked polymers from (e), and co-condensates from (f), are alkoxyated with from an average of 0.1 to about 30 alkyleneoxy units;
- 20 optionally from about 0.01% by weight, of a fabric anti-abrasion polymer comprising:
- i) at least one monomeric unit comprising an amide moiety;
 - ii) at least one monomeric unit comprising an N-oxide moiety;
 - iii) and mixtures thereof;
- 25 C) optionally from about 1% to about 60% by weight, of a fabric softening active;
- D) optionally less than about 15% by weight, of a principal solvent, said principal solvent has a ClogP of from about 0.15 to about 1;
- E) optionally from about 0.001% to about 90% by weight, of one or more dye fixing agents;
- 30 F) optionally from about 0.01% to about 50% by weight, of one or more cellulose reactive dye fixing agents;
- G) optionally from about 0.01% to about 15% by weight, of a chlorine scavenger;
- H) optionally about 0.005% to about 1% by weight, of one or more crystal growth inhibitors;

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C)

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- I) optionally from about 1% to about 12% by weight, of one or more liquid carriers;
 - J) optionally from about 0.001% to about 1% by weight, of an enzyme;
 - K) optionally from about 0.01% to about 8% by weight, of a polyolefin emulsion or suspension;
 - L) optionally from about 0.01% to about 0.2% by weight, of a stabilizer;
 - M) from about 0.01% by weight, of one or more linear or cyclic polyamines which provide bleach protection; and
 - N) the balance carrier and adjunct ingredients.
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19. A fabric enhancement composition comprising:

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- A) from about 0.1% to about 30% by weight, of a polymeric material selected from the group consisting of:
 - a) homo-condensates;
 - b) co-condensates;
 - c) co-polymers produced from the reaction of one or more basic amino acids with one or more co-condensable compounds;
 - d) co-polymers produced from the reaction of one or more homo-condensates from (a) or co-condensates from (b) with one or more co-condensable compounds;
 - e) co-condensates formed from the reaction of one or more compounds selected from the group consisting of:
 - i) basic amino acids;
 - ii) co-condensable compounds;
 - iii) crosslinking agents; and
 - f) mixtures thereof;
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wherein said homo-condensates from (a), co-condensates from (b), co-polymers from (c) and (d), and co-condensates from (e), are alkoxylated with from an average of 0.1 to about 30 alkyleneoxy units;

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- B) optionally from about 0.01% by weight, of a fabric anti-abrasion polymer comprising:
 - i) at least one monomeric unit comprising an amide moiety;
 - ii) at least one monomeric unit comprising an N-oxide moiety;
 - iii) and mixtures thereof;

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- C) optionally from about 1% to about 60% by weight, of a fabric softening active;
- D) optionally less than about 15% by weight, of a principal solvent, said principal solvent has a ClogP of from about 0.15 to about 1;
- E) optionally from about 0.001% to about 90% by weight, of one or more dye fixing agents;
- F) optionally from about 0.01% to about 50% by weight, of one or more cellulose reactive dye fixing agents;
- G) optionally from about 0.01% to about 15% by weight, of a chlorine scavenger;
- H) optionally about 0.005% to about 1% by weight, of one or more crystal growth inhibitors;
- I) optionally from about 1% to about 12% by weight, of one or more liquid carriers;
- J) optionally from about 0.001% to about 1% by weight, of an enzyme;
- K) optionally from about 0.01% to about 8% by weight, of a polyolefin emulsion or suspension;
- L) optionally from about 0.01% to about 0.2% by weight, of a stabilizer;
- M) from about 0.01% by weight, of one or more linear or cyclic polyamines which provide bleach protection; and
- N) the balance carrier and adjunct ingredients.

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